

C-COR Electronics, Inc.

60 DECIBEL ROAD • STATE COLLEGE, PENNA. 16801 • PHONE 814-238-2461

LABORATORY AMPLIFIER MODEL 4375 100 KHZ to 225 MHZ 15 V p-p

Uses:

General Purpose Laboratory
Amplifier/Preamplifier
Systems use.
Sweep generator post amplifier.
Oscilloscope preamplifier.
Pulse amplifier.

Features:

Wide bandwidth.
Low noise.
High output.
50 ohm or 75 ohm output
(selectable)
Compact.
Solid state.

Description:

High output and wide bandwidth characterize the C-COR Model 4375 Laboratory Amplifier. The bandwidth of 100 KHZ to 225 MHZ has heretofore been unavailable with the high output of 15 volts p-p into 75 ohms. The unit serves well as either a general signal amplifier or preamplifier or as a fast rise time pulse amplifier. For general signals, use Model 4375-S which is optimized for sine wave signals. For pulses, use Model 4375-P which is optimized for this service.

The gain is switchable in steps of 20, 40, and 60 db by use of attenuators at the input. In addition, a 6 db continuously variable gain control is provided.

The input and output impedance of the basic amplifier is 75 ohms, which is brought to BNC coaxial receptacles. This can be jumpered on the front panel by jumpers provided to 75/50 ohm internal transformers to provide 50 ohm inputs and outputs. VSWR is exceptional considering the extreme bandwidth of over three octaves.

The low noise characteristic of 30 uv equivalent input noise is measured using an rms reading volt meter whose bandwidth is in excess of that of the amplifier. The output noise level is read with the input terminated. This reading, referred to the input, is the total noise generated within the amplifier across the total bandwidth. This is equivalent to a noise figure of 11.5 db.



MOVING AHEAD . . . TO STAY AHEAD IN ELECTRONICS

Prices and specifications are subject to change without notice.

Printed in U.S.A.

**NEW
PRODUCT**

Provision is made for powering a high impedance probe which is available as an accessory item to allow remote measurements where loading is critical.

The unit is available for relay rack mounting on 5-1/4" panel. The model designation is 1375-S (sine wave) or 1375-P (pulse).

The Model 4375 utilizes C-COR's unique solid state distributed amplifier circuitry in the output stage to provide the high output capability. Lower level stages are RC coupled to provide for optimum transient response.

Specifications - Model 4375

3 db Passband:	100 khz to 225 mhz
Flatness; Model 4375-S	\pm 0.5 db, 1 mhz to 220 mhz
Output Capability:	15 volts p-p, \pm 7.5 volts into 75 ohms 12 volts p-p, \pm 6 volts into 50 ohms, 360 mw, 25 dbm for 1 db compression
Pulse Response, Model 4375-P:	Rise time, 2 ns Fall time, 2 ns Overshoot and ringing, less than 5%
Input Impedance:	50 or 75 ohms, selectable
Input VSWR:	1.5/1 max, 1.3/1 typical
Output Impedance:	50 or 75 ohms, selectable
Output VSWR:	2.0/1 max to 175 mhz, 3.0/1 max to 220 mhz
Gain:	20, 40, or 60 db (fixed steps) Vernier control 0 to 6 db
Noise:	30 uv rms equivalent input
Connectors:	BNC
Operating Temperature Range:	-20° C to +50° C
Power Required:	105 to 125 V, 50-60 cps; 25 watts
Price:	\$995.00 f.o.b. factory, any model Specify Model 4375-S for sine wave or 4375-P for pulse. For relay rack mounting, order Model 1375-S or 1375-P
High Z Probe:	\$125.00. Model 3691, sine wave, BW 10 hz-200 mhz, Model 3691A, pulse response, 2 ns risetime.

Prices and specifications are subject to change without notice. Printed in U.S.A.
Form 4375-1--5/66

FIRST CLASS

Permit No. 133

**STATE COLLEGE
PENNA.**

BUSINESS REPLY CARD

— Postage will be paid by —

C-COR Electronics, Inc.

POST OFFICE BOX 824

STATE COLLEGE, PENNSYLVANIA

16801



- ☐ Please drop my name from the C-COR mailing list.
- ☐ Please keep my name on the C-COR mailing list.
- ☐ Please change my mailing address as shown below.
- ☐ Please send additional information on

.....

.....





NEW
PRODUCT

C-COR Electronics, Inc.

60 DECIBEL ROAD • STATE COLLEGE, PENNA. 16801 • PHONE 814-238-2461

TENTATIVE DATA SHEET
High Output Distributed Amplifiers
Solid State

C-COR Electronics has completed development work on amplifier circuits represented by the following specifications. This defines a capability rather than a product. Your inquiry is invited.

Type of Unit:	Module
Bandpass:	Available in any of below listed bandpass range: 1 - 30 mc 10 - 50 mc 50 - 100 mc 75 - 125 mc
Flatness:	$\pm .5$ db in above listed ranges.
Gain:	20 db minimum. Higher gains available.
VSWR:	2:1 maximum input. 2:5 maximum output.
Impedances:	75 ohm or 50 ohm.
Output Capability:	30 V p-p into 75 ohms. 25 V p-p into 50 ohms. (Rated for sine wave)
Power:	+45 Volts DC at 600 ma.
Connectors:	BNC, input and output. Winchester M5P, power.
Size:	3-1/2 x 10-1/2 x 1-3/4"

MOVING AHEAD . . . TO STAY AHEAD IN ELECTRONICS

Prices and specifications are subject to change without notice.

Printed in U.S.A.

NEW PRODUCT